AUTHOR INDEX

Abramson, Nils, Light-in-flight recording by holography, 140
Benton, Stephen A., One-step white-light transmission holography, 156
Bernal G. E., Automated thermoplastic holographic camera development, 192
Bjelkhagen, Hans, Sandwich holography for compensation of rigid body motion and reposition of large objects, 85
Briones, R. A., Particle holography at extended distances and μm resolutions, 112
Campbell, M., Automated thermoplastic holographic camera development, 192
Caulfield, H. J., Composite matched filters, 135
Chang, B. J., Silver-halide gelatin holograms, 172
Chen, Chungte W., Using a conventional optical design program to design holographic optical elements, 15
Chen, Hsuan, One-step rainbow holography—old and new, 162
Daehlin, T., Automated thermoplastic holographic camera development, 192
Dunn, Paul, Advances in far-field holography—theory and applications, 102
Fairchild, R. C., Computer-originated hologram lenses, 2
Fienup, J. R., Computer-originated hologram lenses, 2
Flannery, John V., Holography on Space Shuttle, 76
Fusek, Richard L., Use of a holographic lens for producing cylindrical holographic stereograms, 32
——, Richard L., Optical techniques for increasing image width in cylindrical holographic stereograms, 39
Gallagher, N. C., Holography at 10.6 μm, 183
Haimes, Robert, Composite matched filters, 135
Heflinger, Lee O., Holography on Space Shuttle, 76
Herriau, J. P., Dynamic holography and coherent four wave mixing in $Bi_{12}SiO_{20}$ crystal, 178
Hildebrand, B. P., Advances in acoustical holography, 116
Horner, Joseph L., Holographic optical element (HOE) for demultiplexing in fiber optic systems, 46
——, Composite matched filters, 135
Huff, Lloyd, Use of a holographic lens for producing cylindrical holographic stereograms, 32
——, Optical techniques for increasing image width in cylindrical holographic stereograms, 39
Huignard, J. P., Dynamic holography and coherent four wave mixing in $Bi_{12}SiO_{20}$ crystal, 178
Jeong, Tung H., Education of holography, 154
Kassel, Aaron, Holography on Space Shuttle, 76
Lee, T. C., Automated thermoplastic holographic camera development, 192
Lee, Wai-Hon, Recent developments in computer-generated holograms, 52
Leith, E. N., The legacy of Dennis Gabor, 98
——, Hologram formation with white light, 129
Leung, K. M., E-beam computer generated holograms for aspheric testing, 70
Lin, J., Automated thermoplastic holographic camera development, 192
Lindquist, J. C., E-beam computer generated holograms for aspheric testing, 70
Lokberg, Ole J., Advances and applications of electronic speckle pattern interferometry (ESPI), 92
Loomis, John S., Computer-generated holography and optical testing, 59
Ludman, Jacques E., Holographic optical element (HOE) for demultiplexing in fiber optic systems, 46
McGrew, Stephen P., Color control in dichromated gelatin reflection holograms, 24
Mingace, Herbert S., Jr., One-step white-light transmission holography, 156
Schulze, R., Automated thermoplastic holographic camera development, 192
Shepherd, L. T., E-beam computer generated holograms for aspheric testing, 70
Skogen, J., Automated thermoplastic holographic camera development, 192
Stevenson, W. H., Holography at 10.6 μm, 183
Swanson, G., Hologram formation with white light, 129
Sweeney, D. W., Holography at 10.6 μm, 183
Tai, A. M., One-step rainbow holography—old and new, 162
Tamura, Poohsan N., Stereophonic recording and reconstruction methods to generate real and virtual images, 144
Thompson, Brian J., Advances in far-field holography—theory and applications, 102
Walter, William R., One-step white-light transmission holography, 156
Winick, K., Silver-halide gelatin holograms, 172
Wuerker, Ralph F., Holography on Space Shuttle, 76
——, Holography of art objects, 167
Yu, F. T. S., One-step rainbow holography—old and new, 162

SUBJECT INDEX

Acoustical holography, advances in, 116
Advances in acoustical holography, 116
Advances and applications of electronic speckle pattern interferometry (ESPI), 92
Advances in far-field holography—theory and applications, 102
Applications, advances in far-field holography—theory and, 102
Applications of electronic speckle pattern interferometry (ESPI), advances and, 92
Art objects, holography of, 167
Aspheric testing, E-beam computer generated holograms for, 70
Automated thermoplastic holographic camera development, 192

$Bi_{12}SiO_{20}$ crystal, dynamic holography and coherent four wave mixing in, 178

Camera development, automated thermoplastic holographic, 192
Coherent four wave mixing in $Bi_{12}SiO_{20}$ crystal, dynamic holography and, 178
Color control in dichromated gelatin reflection holograms, 24
Compensation of rigid body motion and reposition of large objects, sandwich holography for, 85
Composite matched filters, 135
Computer generated holograms for aspheric testing, E-beam, 70
Computer-generated holograms, recent developments in, 52
Computer-generated holography and optical testing, 59
Computer-originated hologram lenses, 2
Control in dichromated gelatin reflection holograms, color, 24
Conventional optical design program to design holographic optical elements, using a, 15
Crystal, dynamic holography and coherent four wave mixing in $Bi_{12}SiO_{20}$, 178
Cylindrical holographic stereograms, optical techniques for increasing image width in, 39
Cylindrical holographic stereograms, use of a holographic lens for producing, 32

Demultiplexing in fiber optic systems, holographic optical element (HOE) for, 46
Design program to design holographic optical elements, using a conventional optical, 15
Development, automated thermoplastic holographic camera, 192
Developments in computer-generated holograms, recent, 52
Dichromated gelatin reflection holograms, color control in, 24

AUTHOR INDEX

Abramson, Nils, Light-in-flight recording by holography, 140
Benton, Stephen A., One-step white-light transmission holography, 156
Bernal G. E., Automated thermoplastic holographic camera development, 192
Bjelkhagen, Hans, Sandwich holography for compensation of rigid body motion and reposition of large objects, 85
Briones, R. A., Particle holography at extended distances and μm resolutions, 112
Campbell, M., Automated thermoplastic holographic camera development, 192
Caulfield, H. J., Composite matched filters, 135
Chang, B. J., Silver-halide gelatin holograms, 172
Chen, Chungte W., Using a conventional optical design program to design holographic optical elements, 15
Chen, Hsuan, One-step rainbow holography—old and new, 162
Daehlin, T., Automated thermoplastic holographic camera development, 192
Dunn, Paul, Advances in far-field holography—theory and applications, 102
Fairchild, R. C., Computer-originated hologram lenses, 2
Fienup, J. R., Computer-originated hologram lenses, 2
Flannery, John V., Holography on Space Shuttle, 76
Fusek, Richard L., Use of a holographic lens for producing cylindrical holographic stereograms, 32
——, Richard L., Optical techniques for increasing image width in cylindrical holographic stereograms, 39
Gallagher, N. C., Holography at 10.6 μm, 183
Haimes, Robert, Composite matched filters, 135
Heflinger, Lee O., Holography on Space Shuttle, 76
Herriau, J. P., Dynamic holography and coherent four wave mixing in $Bi_{12}SiO_{20}$ crystal, 178
Hildebrand, B. P., Advances in acoustical holography, 116
Horner, Joseph L., Holographic optical element (HOE) for demultiplexing in fiber optic systems, 46
——, Composite matched filters, 135
Huff, Lloyd, Use of a holographic lens for producing cylindrical holographic stereograms, 32
——, Optical techniques for increasing image width in cylindrical holographic stereograms, 39
Huignard, J. P., Dynamic holography and coherent four wave mixing in $Bi_{12}SiO_{20}$ crystal, 178
Jeong, Tung H., Education of holography, 154
Kassel, Aaron, Holography on Space Shuttle, 76
Lee, T. C., Automated thermoplastic holographic camera development, 192
Lee, Wai-Hon, Recent developments in computer-generated holograms, 52
Leith, E. N., The legacy of Dennis Gabor, 98
——, Hologram formation with white light, 129
Leung, K. M., E-beam computer generated holograms for aspheric testing, 70
Lin, J., Automated thermoplastic holographic camera development, 192
Lindquist, J. C., E-beam computer generated holograms for aspheric testing, 70
Lokberg, Ole J., Advances and applications of electronic speckle pattern interferometry (ESPI), 92
Loomis, John S., Computer-generated holography and optical testing, 59
Ludman, Jacques E., Holographic optical element (HOE) for demultiplexing in fiber optic systems, 46
McGrew, Stephen P., Color control in dichromated gelatin reflection holograms, 24
Mingace, Herbert S., Jr., One-step white-light transmission holography, 156
Schulze, R., Automated thermoplastic holographic camera development, 192
Shepherd, L. T., E-beam computer generated holograms for aspheric testing, 70
Skogen, J., Automated thermoplastic holographic camera development, 192
Stevenson, W. H., Holography at 10.6 μm, 183
Swanson, G., Hologram formation with white light, 129
Sweeney, D. W., Holography at 10.6 μm, 183
Tai, A. M., One-step rainbow holography—old and new, 162
Tamura, Poohsan N., Stereophonic recording and reconstruction methods to generate real and virtual images, 144
Thompson, Brian J., Advances in far-field holography—theory and applications, 102
Walter, William R., One-step white-light transmission holography, 156
Winick, K., Silver-halide gelatin holograms, 172
Wuerker, Ralph F., Holography on Space Shuttle, 76
——, Holography of art objects, 167
Yu, F. T. S., One-step rainbow holography—old and new, 162

SUBJECT INDEX

Acoustical holography, advances in, 116
Advances in acoustical holography, 116
Advances and applications of electronic speckle pattern interferometry (ESPI), 92
Advances in far-field holography—theory and applications, 102
Applications, advances in far-field holography—theory and, 102
Applications of electronic speckle pattern interferometry (ESPI), advances and, 92
Art objects, holography of, 167
Aspheric testing, E-beam computer generated holograms for, 70
Automated thermoplastic holographic camera development, 192

$Bi_{12}SiO_{20}$ crystal, dynamic holography and coherent four wave mixing in, 178

Camera development, automated thermoplastic holographic, 192
Coherent four wave mixing in $Bi_{12}SiO_{20}$ crystal, dynamic holography and, 178
Color control in dichromated gelatin reflection holograms, 24
Compensation of rigid body motion and reposition of large objects, sandwich holography for, 85
Composite matched filters, 135
Computer generated holograms for aspheric testing, E-beam, 70
Computer-generated holograms, recent developments in, 52
Computer-generated holography and optical testing, 59
Computer-originated hologram lenses, 2
Control in dichromated gelatin reflection holograms, color, 24
Conventional optical design program to design holographic optical elements, using a, 15
Crystal, dynamic holography and coherent four wave mixing in $Bi_{12}SiO_{20}$, 178
Cylindrical holographic stereograms, optical techniques for increasing image width in, 39
Cylindrical holographic stereograms, use of a holographic lens for producing, 32

Demultiplexing in fiber optic systems, holographic optical element (HOE) for, 46
Design program to design holographic optical elements, using a conventional optical, 15
Development, automated thermoplastic holographic camera, 192
Developments in computer-generated holograms, recent, 52
Dichromated gelatin reflection holograms, color control in, 24

Distances and μm resolutions, particle holography at extended, 112
Dynamic holography and coherent four wave mixing in $Bi_{12}SiO_{20}$ crystal, 178

(ESPI), advances and applications of electronic speckle pattern interferometry, 92
E-beam computer generated holograms for aspheric testing, 70
Education of holography, 154
Electronic speckle pattern interferometry (ESPI), advances and applications of, 92
Elements, using a conventional optical design program to design holographic optical, 15
Extended distances and μm resolutions, particle holography at, 112

Far-field holography—theory and applications, advances in, 102
Fiber optic systems, holographic optical element (HOE) for demultiplexing in, 46
Filters, composite matched, 135
Flight recording by holography, light-in-, 140
Formation with white light, hologram, 129
Four wave mixing in $Bi_{12}SiO_{20}$ crystal, dynamic holography and coherent, 178

Gabor, the legacy of Dennis, 98
Gelatin holograms, silver-halide, 172
Gelatin reflection holograms, color control in dichromated, 24

(HOE) for demultiplexing in fiber optic systems, holographic optical element, 46
Halide gelatin holograms, silver-, 172
Hologram formation with white light, 129
Hologram lenses, computer-originated, 2
Holograms for aspheric testing, E-beam computer generated, 70
Holograms, color control in dichromated gelatin reflection, 24
Holograms, recent developments in computer-generated, 52
Holograms, silver-halide gelatin, 172
Holographic camera development, automated thermoplastic, 192
Holographic lens for producing cylindrical holographic stereograms, use of a, 32
Holographic optical element (HOE) for demultiplexing in fiber optic systems, 46
Holographic optical elements, using a conventional optical design program to design, 15
Holographic stereograms, optical techniques for increasing image width in cylindrical, 39
Holographic stereograms, use of a holographic lens for producing cylindrical, 32
Holography, advances in acoustical, 116
Holography of Art Objects, 167
Holography and coherent four wave mixing in $Bi_{12}SiO_{20}$ crystal, dynamic, 178
Holography for compensation of rigid body motion and reposition of large objects, sandwich, 85
Holography, education of, 154
Holography at extended distances and μm resolutions, particle, 112
Holography, light-in-flight recording by, 140
Holography—old and new, one-step rainbow, 162
Holography, one-step white-light transmission, 156
Holography and optical testing, computer-generated, 59
Holography on Space Shuttle, 76
Holography at 10.6 μm, 183
Holography—theory and applications, advances in far-field, 102

Image width in cylindrical holographic stereograms, optical techniques for increasing, 39
Images, stereophonic recording and reconstruction methods to generate real and virtual, 144
Increasing image width in cylindrical holographic stereograms, optical techniques for, 39
Interferometry (ESPI), advances and applications of electronic speckle pattern, 92

Large objects, sandwich holography for compensation of rigid body motion and reposition of, 85
The legacy of Dennis Gabor, 98
Lens for producing cylindrical holographic stereograms, use of a holographic, 32
Lenses, computer-originated hologram, 2
Light, hologram formation with white, 129
Light transmission holography, one-step white-, 156
Light-in-flight recording by holography, 140

Matched filters, composite, 135
Mixing in $Bi_{12}SiO_{20}$ crystal, dynamic holography and coherent four wave, 78
Motion and reposition of large objects, sandwich holography for compensation of rigid body, 85

One-step rainbow holography—old and new, 162
One-step white-light transmission holography, 156
Optic systems, holographic optical element (HOE) for demultiplexing in fiber, 46
Optical design program to design holographic optical elements, using a conventional, 15
Optical element (HOE) for demultiplexing in fiber optic systems, holographic, 46
Optical elements, using a conventional optical design program to design holographic, 15
Optical techniques for increasing image width in cylindrical holographic stereograms, 39
Optical testing, computer-generated holography and, 59

Particle holography at extended distances and μm resolutions, 112
Pattern interferometry (ESPI), advances and applications of electronic speckle, 46

Rainbow holography—old and new, one-step, 162
Real and virtual images, stereophonic recording and reconstruction methods to generate, 144
Recent developments in computer-generated holograms, 52
Reconstruction methods to generate real and virtual images, stereophonic recording and, 144
Recording by holography, light-in-flight, 140
Recording and reconstruction methods to generate real and virtual images, stereophonic, 144
Reflection holograms, color control in dichromated gelatin, 24
Reposition of large objects, sandwich holography for compensation of rigid body motion and, 85
Resolutions, particle holography at extended distances and μm, 112
Rigid body motion and reposition of large objects, sandwich holography for compensation of, 85

Sandwich holography for compensation of rigid body motion and reposition of large objects, 85
Silver-halide gelatin holograms, 172
Space Shuttle, holography on, 76
Speckle pattern interferometry (ESPI), advances and applications of electronic, 92
Stereograms, optical techniques for increasing image width in cylindrical holographic, 39
Stereograms, use of a holographic lens for producing cylindrical holographic, 32
Stereophonic recording and reconstruction methods in generate real and virtual images, 144

Techniques for increasing image width in cylindrical holographic stereograms, optical, 39
10.6 μm holography at, 183
Theory and applications, advances in far-field holography—, 102

Thermoplastic holographic camera development, 192
Transmission holography, one-step white-light, 156

Use of a holographic lens for producing cylindrical holographic stereograms, 32
Using a conventional optical design program to design holographic optical elements, 15

Virtual images, stereophonic recording and reconstruction methods to generate real and, 144

Wave mixing in $Bi_{12}SiO_{20}$ crystal, dynamic holography and coherent four, 178
White light, hologram formation with, 129
White-light transmission holography, one-step, 156
Width in cylindrical holographic stereograms, optical techniques for increasing image, 39